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			Patent No.		\dashv	Not ap	pplicable		
			Issue Date		\dashv	Not applicable			
	ENCLOSURES (check all that apply)								
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	☐ Check Attached☐ Copy of Fee		Formal Drawin	no(s)	٦,		Appeal Brief (in triplicate)		
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	Affidavits/declaration(s)		Power of Attorney (Revocation of Prior Powers)			_	•		
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	Time		of Attorney for	r Utility or Design			(please identify below)		
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\boxtimes	Information Disclosure		Small Entity S	tatement					
	Statement (3 pgs.) Form PTO-1449	1							
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	Certified Copy of Priority Document(s)		Amendment A	fter Allowance					
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COR	RESPONDENCE ADDRESS	<u> </u>		SIGNATURE BLO		117			
				SIGNATURE DE	UC	K	Respectfully submitted,		
Direc	et all correspondence to: Patent Add Goodwin I Exchange Boston, M Tel. No.: (Fax No.: (Customer	Date: May 2 , 2005 Reg. No. 38,678 Tel. No.: (617) 570- Fax No.: (617) 523-	-129		Duncan A. Greenhalgh Attorney for Applicants Goodwin Procter LLP Exchange Place				
1							Boston, MA 02109		

VER 12/00



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S):

Liu et al.

SERIAL NO.:

10/643,752

GROUP NO.:

1637

FILING DATE:

August 19, 2003

EXAMINER:

Jezia Riley

TITLE:

Evolving New Molecular Function

CERTIFICATE OF FIRST CLASS MAILING UNDER 37 C.F.R. 1.8

I hereby certify that this correspondence, and any document(s) referred to as enclosed herein, is/are being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 6th day of May, 2005.

Carrah M. Malone

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Submitted herewith is/are:

- 1. Transmittal Form (1 page);
- 2. Information Disclosure Statement (3 pages);
- 3. Copies of cited References B1-B33 and C1-C217;
- 4. Form PTO 1449 (13 pages); and
- 5. Return receipt postcard.

VER 9/00



PATENT Attorney Docket No. LS5-001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S):

Liu et al.

CONF. NO.:

4082

SERIAL NO.:

10/643,752

GROUP NO.:

1637

FILING DATE:

August 19, 2003

EXAMINER:

Jezia Riley

TITLE:

Evolving New Molecular Function

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the patents and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. An International Search Report for International Patent Application No. PCT/US02/08546, an International Search Report for International Patent Application No. PCT/US03/25984, and a Supplemental European Search Report for Patent Application No. EP02753671 are cited under C93, C94 and C191, respectively. In accordance with 37 C.F.R. 1.98(a)(2), only copies of the foreign patent documents and non-patent publications are enclosed.

In addition, Applicants wish to inform the Examiner about the following U.S. patent applications and the contents of their file wrappers, including all Office actions issued therein:

- 1. U.S.S.N. 10/101,030, entitled "Evolving New Molecular Function," filed on March 19, 2002, and published as 2003/0113738, on June 19, 2003;
- 2. U.S.S.N. 10/744,605, entitled "Evolving New Molecular Function," filed on December 23, 2003, and published as 2005/0025766, on February 3, 2005;
- 3. U.S.S.N. 10/949,162, entitled "Evolving New Molecular Function," filed on September 24, 2004, and published as 2005/0042669, on February 24, 2005;
- 4. U.S.S.N. 10/949,163, entitled "Evolving New Molecular Function," filed on September 24, 2004; and

Information Disclosure Statement Serial No. 10/643,752 Page 2 of 3

5. U.S.S.N. 10/950,367, entitled "Evolving New Molecular Function," filed on September 24, 2004.

REMARKS

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

	(1)	within three (3) months of the filing date of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the date of entry of the national stage as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the first Office action on the merits, or before the mailing of a first Office action after the filing of a request for continued examination under 37 C.F.R. 1.114; or
	(2)	after the period defined in (1) but before the mailing date of a final action or a notice of allowance under 37 C.F.R. 1.311, and
		the requisite Statement is below, OR
		the requisite fee under 37 C.F.R. 1.17(p), namely \$180.00, is included herein, or
	(3)	after the mailing date of a final action or notice of allowance but before the payment of the issue fee, AND
		the requisite Statement is below, AND
		the requisite petition fee under 37 C.F.R. 1.17(p), namely \$180.00 is included herein.
	-	ally requested that each of the patents and publications listed on the attached Form her information contained herein, be made of record in this application.
		STATEMENT
	_	under 37 C.F.R. 1.97(e), Applicant(s), through the undersigned, hereby state either that
_	'	priate space only if either (2) or (3) is checked on the previous page <u>and</u> the
Statement	is requ	nredj:
	1.	Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Information Disclosure Statement; or

Information Disclosure Statement Serial No. 10/643,752 Page 3 of 3

No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of the Information Disclosure Statement.

Date: May 6, 2005 Reg. No. 38,678

Tel. No.: (617) 570-1299 Fax No.: (617) 523-1231

VER 11/03 2466309 Respectfully submitted,

Duncan A. Greenhaleh Attorney for Applicants Goodwin Procter LLP Exchange Place

Boston, Massachusetts 02109

Customer No. 051414



FORM PTO - 1449

INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: LS5-001

APPLICANT(S): Liu et al.

SERIAL NO.: 10/643,752

FILING DATE: August 19, 2003 GROUP: 1637

U.S. PATENT DOCUMENTS EXAM. DOCUMENT DATE NAME **CLASS** SUB FILING DATE IF INIT. NUMBER **CLASS** APPROPRIATE 11/1/01 2001/0036638 A1 Nolan et al. ΑI 2002/0034757 A1 3/21/02 Cubicciotti A2 2002/0038000 A1 3/28/02 Gold et al. A3 2002/0064798 A1 5/30/02 A4 Nolan et al. 2003/0104389 6/5/03 Sergeev A5 2003/0113738 A1 6/19/2003 Liu et al. **A6** 2003/0143561 A1 7/31/03 Pedersen et al. A7 2004/0014090 A1 1/22/2004 Neri et al. A8 Α9 2005/0025766 A1 2/3/2005 Liu et al. 2005/0042669 A1 2/24/2005 Liu et al. A10 4,683,202 7/28/87 Mullis A11 9/5/89 Blalock et al. 4,863,857 A12 5,162,218 11/10/92 A13 Schultz 5,270,170 12/14/93 Schatz et al. A14 5,539,082 7/23/96 Nielsen et al. A15 5,547,835 8/20/96 Köster A16 5,559,000 9/24/96 Janda et al. A17 5,573,905 11/12/96 Lerner et al. A18 5,574,141 11/12/96 Seliger et al A19 1/28/97 A20 5,597,697 Diamond 2/25/97 5,605,798 Köster A21 4/22/97 5,622,824 Köster A22 6/17/97 A23 5,639,603 Dower et al. **EXAMINER DATE CONSIDERED**

FORM PTO - 1449			ATTORNEY DOCKET NO.: LS5-001					
INFORMATION D	INFORMATION DISCLOSURE STATEMENT				APPLICANT(S): Liu et al.			
					SERIAL NO.: 10/643,752			
				FILING DATE: A	August 19, 2	2003 GRO	OUP: 1637	
A24	5,677,195	10/14/97	Winkle	r et al.	<u> </u>			
A25	5,691,141	11/25/97	Köster					
A26	5,698,685	12/16/97	Summe	rton et al.				
A27	5,708,153	1/13/98	Dower	et al.				
A28	5,719,262	2/17/98	Buchar	dt <i>et al</i> .				
A29	5,721,099	2/24/98	Still et	al.				
A30	5,723,598	3/3/98	Lerner	et al.				
A31	5,770,358	6/23/98	Dower	et al.				
A32	5,786,461	7/28/98	Buchar	dt et al.				
A33	5,789,160	8/4/98	Eaton e	t al.			1	
A34	5,789,162	8/4/98	Dower et al.					
A35	5,811,238	9/22/98	Stemmer et al.					
A36	5,840,485	11/24/98	Lebl et al.					
A37	5,843,701	12/1/98	Gold et	al.				
A38	5,846,839	12/8/98	Gallop	et al.				
A39	5,851,765	12/22/98	Köster					
A40	5,872,003	2/16/99	Köster					
A41	5,922,545	7/13/99	Matthe	akis <i>et al</i> .				
A42	5,958,691	9/28/99	Pieken	et al.				
A43	5,958,703	9/28/99	Dower	et al.				
A44	5,986,053	11/16/99	Ecker e	t al.				
A45	5,998,140	12/7/99	Dervan	et al.				
A46	6,037,120	3/14/00	Brenne	Brenner				
A47	6,037,120	3/14/00	Brenne					
A48	6,060,596	5/9/00	Lerner	et al.				
A49	6,074,823	6/13/00	Köster					
A50	6,080,826	6/27/00	Grubbs	et al.				
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FORM PTO - 1449					А	ATTORNEY DOCKET NO.: LS5-001					
INFORMATION DISCLOSURE STATEMENT				A	APPLICANT(S): Liu et al.						
						ERIAL NO	D.: 10/64	13,752			
					F	ILING DA	TE: Au	gust 19, 20	03 GRC	OUP: 1	637
	A51	6,127,154	10/3/	00 Mo	bach	et al.					
	A52	6,140,053	10/31/	00 Kös	ter						
	A53	6,140,493	10/31/	00 Dov	ver et	al.					
	A54	6,140,496	10/31/	00 Ben	ner						
	A55	6,143,497	11/7/	00 Dov	ver <i>et</i>	al.					-
	A56	6,165,717	12/26/	00 Dov	ver <i>et</i>	al.					
	A57	6,175,001	1/16/	01 Bar	bas ei	t al.					
	A58	6,194,144	2/27/	01 Kös	ter						
	A59	6,194,550	2/27/	01 Gol	d et a	ıl					
	A60	6,207,446	3/27/	01 Szo	stak e	et al.					
	A61	6,214,553	4/10/	01 Szo	stak e	et al.					
	A62	6,225,450	5/1/	01 Kös	ter						
	A63	6,238,871	5/29/	01 Kös	ter						
	A64	6,287,765	9/11/		iccio						
	A65	6,291,160	<u> </u>		ner <i>et</i>						
	A66	6,291,161	9/18/		ner <i>et</i>						. <u> </u>
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	A70	6,680,192	1/20/	04 Len	ner <i>et</i>	al.					
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	Bl	EP 0 324 616 A	7/19/89	EP				1	1		
	В2	WO 91/05058	4/18/91	PCT							
	В3	WO 92/02536	2/20/92	PCT							
	B4	WO 93/06121	4/1/93	PCT							
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			SERIAL NO.: 10/643,752			
			FILING DATE: August 19, 2003 GROUP: 1637			
B5 WO 96/09316	9/19/95	PCT				
B6 DE 196 46 372	C1 11/9/96	DE	- - - - - - - - - - 			
B7 EP 0 604 552	2/12/97	EP				
B8 EP 0 773 227	5/14/97	EP				
B9 WO 00/23458	4/27/00	PCT				
B10 EP 0 643 778	5/31/00	ЕP				
B11 WO 00/47775	8/17/00	PCT				
B12 WO 00/61775	10/19/00	PCT				
B13 WO 02/102820	12/27/02	PCT				
B14 WO 02/103008	12/27/02	PCT				
B15 WO 03/078050	9/25/2003	PCT				
B16 WO 03/078445	9/25/03	PCT				
B17 WO 03/078446	9/25/03	PCT				
B18 WO 03/078625	9/25/03	PCT				
B19 , WO 03/078626	9/25/03	PCT				
B20 WO 03/078627	9/25/03	PCT				
B21 WO 03/082901	10/9/03	PCT				
B22 WO 04/001042	12/31/03	PCT				
B23 WO 04/013070	2/12/04	PCT				
B24 WO 04/024929	3/25/04	PCT				
B25 WO 04/039825	5/13/04	PCT				
B26 WO 04/056994	7/8/04	PCT				
B27 WO 04/074429	9/2/04	PCT				
B28 WO 04/074501	9/2/04	PCT				
B29 WO 04/083427	9/30/04	PCT				
B30 WO 04/110964	12/23/04	PCT				
B31 WO 05/003778	1/13/05	PCT				
EXAMINER		DATE CONSIDERED				

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	B32	WO 02/074929 A2	9/26/02	PCT	<u></u>				T	
	B33	WO 04/016767	2/26/04	PCT						
		O	THER AR	T, JOUR	NA	L ARTIC	CLES, ET	C.	·	
EXAM. INIT.										
_	Cl	Acevedo et al., "Non-Enzymatic Transcription of an Oligodeoxynucleotide 14 Residues Long" J. Mol. Biol. 197: 187-193 (1987)								
	C2		Alvarez et al., "Photocleavable Protecting Groups as Nucleobase Protections Allowed the Solid-Phase Synthesis of Base- Sensitive SATE-Prooligonucleotides" J. Org. Chem. 64: 6319-6328 (1999)							
	C3		Anderson et al. "A Comparison of Selected mRNA and Protein Abundances in Human Liver" Electrophiresis 18: 533-				esis 18: 533-			
	C4	Arap et al., "Steps Toward Mapping the Human Vasculature by Phage Display" Nat. Med. 8(2) 121-127 (2002)				2002)				
	C5	Arnold et al., "Directed Evolution of Biocatalysts" Curr. Opin. Chem. Biol. 3: 54-59 (1999)								
	C6	Arnold et al, "Design	Arnold et al, "Design by Directed Evolution" Acc. Chem. Res. 31: 125-131 (1998)							
	C7	Bain et al. "Ribosome-Mediated Incorporation of a Non-Standard Amino Acid into a Peptide Through Expansion of the Genetic Code" Nature 356: 537-539 (1992)								
	C8	Baldwin et al. "Enzyn	Baldwin et al. "Enzymes in Synthetic Organic Chemistry" Tetrahedron Organic Chemistry Series 12: 1-40							
	C9	Ban et al., "The Comp (2000)	lete Atomic S	Structure of t	he L	arge Riboson	nal Subunit	at 2.4 Å Res	olution" Science	289 : 905-920
	C10	Bannwarth <i>et al.</i> , "A S 175-186 (1987)	imple and Ef	fective Chen	nical	Phosphyory	lation Proced	lure for Bior	nolecules" Helv.	Chim. Acta 70:
	C11	Barbas et al., "Phage I (copy not enclosed)	Display: A La	aboratory Ma	nual	" Cold Sprin	g Harbor L	aboratory Pi	ress New York 7.	36 pages (2001)
	C12	Barbas et al., Chem. In	nt. Ed. Vol. 31	7, 1998. 287	2-28	75 Benner R	eviews			
	C13	Becker et al., "Synther Inhibitors" Bioorg. Me					nopyridine S	ulfonamide	Pyrrolidinones as	Factor Za
	C14	Berger <i>et al.</i> , "Univers 2911-2914 (2000)	al Bases for I	Hybridization	ı, Re	plication and	l Chain Tern	nination" Ni	icleic Acids Rese	arch 28(15):
	C15	Blanco et al., "A Meth Biochemistry 163: 53		ing Protein-l	DNA	Interactions	at Sites of C	Chromatin R	eplication" Analy	vtical
	C16	Bogarad <i>et al.</i> , "A Hie (1999)	rarchical App	roach to Pro	tein	Molecular E	volution" Pr	oc. Natl. Ac	ad. Sci. USA 96:	2591-2595
	C17	Böhler et al., "Templa	te Switching	Between PN.	A an	d RNA Oligo	onucleotides	" Nature 37	6: 578-581 (199:	5)
	C18	Bolli et al., "Pyranosyl-RNA: Chiroselective Self-Assembly of Base Sequences by Ligative Oligomerization of Tetranucleotide-2'3'-Cyclophosphates (with a Commentary Concerning the Origin of Biomolecular Homochirality)" Chem. Biol. 4: 309-320 (1997)								
	C19	Boschelli et al., "Synt (1985)								
	C20	Bostwick et al., "RPR Rabbit" Thromb Haen			Inh	ibitor of Coa	gulation Fac	tor Xa Inhib	oits Venous Thron	mbosis in the
	C21	Brenner et al., "Encod	ed Combinato	orial Chemis	try"	Proc. Natl. A	Icad. Sci. 89	: 5381-5383	3 (1992)	
EXAMIN	ER					DATE C	ONSIDE	RED		

INFORMATION C22	Brenner et al., "In Vitro Cloning of Complex Mi Expressed cDNAs" Proc. Natl. Acad. Sci. USA 9 Bresler et al., "Stability of Peptidyl-tRNA – The 465-475 (1968)	APPLICANT(S): Liu et al. SERIAL NO.: 10/643,752 FILING DATE: August 19, 2003 GROUP: 1637		
C22	Expressed cDNAs" Proc. Natl. Acad. Sci. USA 9 Bresler et al., "Stability of Peptidyl-tRNA – The	FILING DATE: August 19, 2003 GROUP: 1637		
C22	Expressed cDNAs" Proc. Natl. Acad. Sci. USA 9 Bresler et al., "Stability of Peptidyl-tRNA – The			
C22	Expressed cDNAs" Proc. Natl. Acad. Sci. USA 9 Bresler et al., "Stability of Peptidyl-tRNA – The			
	Expressed cDNAs" Proc. Natl. Acad. Sci. USA 9 Bresler et al., "Stability of Peptidyl-tRNA – The	xtures of DNA on Microbeads: Physical Separation of Differentially		
		7(4): 1665-1670 (2000)		
C23		Intermediate of Protein Synthesis" Biochimica et Biophysica Acta 155:		
C24	Brooks <i>et al.</i> , "Antiintegrin ανβ ₃ Blocks Human 96: 1815-1822 (1995)	Breast Cancer Growth and Angiogenesis in Human Skin" J. Clin. Invest.		
C25	Brooks et al., "Disruption of Angiogenesis by Pl Activity" Cell 92: 391-400 (1998)	EX, a Noncatalytic Metalloproteinase Fragment with Integrin Binding		
C26	Brooks et al., Integrin $\alpha_v \beta_3$ Antagonists Promote Cell 79: 1157-1164 (1994)	Tumor Regression by Inducing Apoptosis of Angiogenic Blood Vessels"		
C27	Bruick et al., "Template-Directed Ligation of Pe	ptides to Oligonucleotides" Chem. Biol. 3: 49-56 (1996)		
C28	Cadwell et al., "Randomization of Genes by PCF	R Mutagenesis" PCR Methods Appl. 2: 28-33 (1992)		
C29	Celewicz et al., "Mass Spectrometry of Some De	rivatives of 5-(Indol-2-yl) Pyrimidine" Pol. J. Chem. 72: 725-734 (1998)		
C30	Chan et al., "Intra-tRNA distance measurements HIV reverse transcription" Proc. Natl. Acad. Sci.	for nucleocapsid protein-dependent tRNA unwinding during priming of USA 96: 459-464 (1999)		
C31	Chen et al., "Template-Directed Synthesis on Ol 181: 271-279 (1985)	godeoxycytidylate and Polydeoxycytidylate Templates" J. Mol. Biol.		
C32	Cho et al., "An Unnatural Biopolymer" Science	261: 1303-1305 (1993)		
C33	Choi et al., "Inhibition of Neointimal Hyperplasia by Blocking α _ν β ₃ Integrin with a Small Peptide Antagonist Gpen GRGDSPCA" J. Vasc. Surg. 19: 125-134 (1994)			
C34	Choi-Sledeski et al., "Sulfonamidopyrrolidinone Factor Xa Inhibitors: Potency and Selectivity Enhancements via P-1 and P-4 Optimization" J. Med. Chem. 42: 3572-3587 (1999)			
C35	Collado et al., "Diastereoselective Functionalization of 5-Hydroxy Prolinates by Tandem Horner-Emmons-Michael Reaction" Tetrahedron Lett. 35: 8037 (1994)			
C36	Compton, "Nucleic Acid Sequence-Based Ampli	fication" Nature 350: 91-92 (1991)		
C37	Czlapinski et al., "Nucleic Acid Template-Direct 8618-8619 (2001)	ted Assembly of Metallosalen-DNA Conjugates" J. Am. Chem. Soc. 123:		
C38	Davis, "Intermediates in Amino Acid Biosynthes	is" Adv. Enzymol. 16: 287-295 (1955)		
C39	Dechantsreiter et al., "N-Methylated Cyclic RGE Med. Chem. 42: 3033-3040 (1999)	Peptides as Highly Active and Selective ανβ ₃ Integrin Antogaonists" J.		
C40		ematic Evolution of RNA Ligands b Exponential Enrichment" J. Am.		
C41	Dietz et al., "Photochemical Reduction of 5-Bron	mouracil by Cystine Derivatives and Coupling of 5-Bromouracil to		
C42	Cystine Derivatives: Photochemistry and Photobiology 49(2): 121-129 (1989) Drews, "Drug Discovery: A Historical Perspective" Science 287: 1960-1964 (2000)			
C43	Eaton, "The Joys of In Vitro Selection: Chemically Dressing Oligonucleotides to Satiate Protein Targets" Current Opinion in Chemical Biology 1: 10-16 (1997)			
C44	El-Dorry, "Purification of mRNA Coding for Rat-Liver Fructose- 1,6-bisphosphatase by polysome immunoabsorption" Biochimica et Biophysica Acta 867: 252-255 (1986)			
C45	Eliseev et al., "Dynamic Combinatorial Chemistry: Evolutionary Formation and Screening of Molecular Libraries"			
C46	Combinatorial Chemistry in Biology 243: 159-172 (1999) Ellis et al., "Functional Analysis of the T-Cell Restricted Protein Tyrosine Kinase TxK" Biochem. J. 335: 277-284 (1998)			
	C47 Ewing et al., "Design and Structure – Activity Relationships of Potent and Selective Inhibitors of Blood Coagulation Factor Xa" J. Med. Chem. 42: 3557-3571 (1999)			
EXAMINER		DATE CONSIDERED		

FORM PTO - 1	1449	ATTORNEY DOCKET NO.: LS5-001				
INFORMATIC	ON DISCLOSURE STATEMENT	APPLICANT(S): Liu et al.				
		SERIAL NO.: 10/643,752				
		FILING DATE: August 19, 2003 GROUP: 1637				
C48	Famulok et al., "Oligonucleotide Libraries-Varia	atio Delectat" Curr. Opin. Chem. Biol. 2: 320-327 (1998)				
C49	Fenn et al., "Direct Quantitation of Biotin-Label 78-83 (1990)	Fenn et al., "Direct Quantitation of Biotin-Labeled Nucleotide Analogs in RNA Transcripts" Analytical Chemistry 190:				
C50	Fleet et al., "Enantiospecific Synthesis of Shikir	nic Acid from D-Mannose: Formation of a Chiral Cyclohexene by erived Intermediate" J. Chem. Soc. Perkins, Trans. 1: 905-908 (1984)				
C51		licyclic Polyalcohols to the Corresponding Primary Polyamines" J. Org.				
C52		ition-Metal Complexes, Catalysts and Materials" Curr. Opin. Chem. Biol.				
C53		Alkene Epoxidation from Metal-Binding Combinatorial Libraries"				
C54	Frankel et al., "Encodamers: Unnatural Peptide (2003)	Oligomers Encoded in RNA" Chemistry and Biology 10: 1043-1050				
C55	Friedlander et al., "Definition of Two Angiogen	ic Pathways by Distinct αν Integrins" Science 270: 1500-1502 (1995)				
C56	Fruchart et al., "A New Linker for the Synthesis (1999)	of C-Terminal Peptide α-oxo-Aldehydes" Tetrahedron Lett. 40: 6225				
C57	Fruchtel et al., "Organic Chemistry on Solid Supports" Angew. Chem. Int. Ed. Engl. 35: 17-42 (1996)					
C58	Gad, "Synaptic Vesicle endocytosis studied in a living synapse" Nobel Institute for Neurophysiology, Karolinska Institutet, Sweden 1-48 (2000)					
C59	Gallop et al., "Applications of Combinatorial Technologies to Drug Discovery, 1. Background and Peptide Combinatorial Libraries" J. Med. Chem. 37: 1233-1251 (1994)					
C60	Gartner et al., "The Generality of DNA-Templated Synthesis as a Basis for Evolving Non-Natural Small Molecules" J. Am. Chem. Soc. 123: 6961-6963 (2001)					
C61	Gat et al., "Reading DNA Differently" Biopolym	ners 48: 19-28 (1998)				
C62	Gevorkian et al. "Rapid Communication Identifi using Phage-Display Peptide Library" Clin. Imm	cation of Autoimmune Thrombocytopenic Purpura-Related Epitopes				
C63		lic RGD Peptide Containing a Ψ [CH ₂ - NH] Bond: A Positional Shift in de Mimetic" <i>J. Am. Chem. Soc.</i> 116: 7735-7743 (1994)				
C64		braries of Palladium β-Turn Phosphine Complexes" J. Am. Chem. Soc.				
C65		in Bacteria" Mutation Research 248: 135-143 (1991)				
C66	Gordon et al., Applications of Combinatorial Te- Screening Strategies, and Future Directions," J. I	chnologies to Drug Discovery. 2. Combinatorial Organic Synthsis, Library Med. Chem. 37(10): 1385-1401 (1994).				
C67	Gourlain et al., "Enhancing the Catalytic Repert	oire of Nucleic Acids. II. Simultaneous Incorporation of Amino and phosphates During PCR" Nucleic Acids Res. 29: 1898-1905 (2001)				
C68		nthesis", 780 pages Wiley & Sons (1999) (copy not enclosed)				
C69	Grubina et al., "Summer Research Report: DNA-Templated Synthesis of a Synthetic Small Molecule Library" The Nucleus 10-14, January 2004					
C70	Gryaznov et al., "Chemical Ligation of Oligonucleotides in the Presence and Absence of a Template" J. Am. Chem. Soc. 115: 3808-3809 (1993)					
C71	Gryaznov et al., "Template Controlled Coupling and Recombination of Oligonucleotide Blocks Containing Thiophosphoryl Groups" Nucleic Acids Research 21(6): 1403-1408 (1993)					
C72	Guatelli et al., "Isothermal, In Vitro Amplification of Nucleic Acids by a Multienzyme Reaction Modeled After Retroviral Replication" Proc. Natl. Acad. Sci. 87: 1874-1878 (1990)					
C73		DNA by the Polymerase Chain Reaction and its Application to Direct				
EXAMINER		DATE CONSIDERED				
		- 				

FORM PTO - 1	449	ATTORNEY DOCKET NO.: LS5-001			
INFORMATIO	ON DISCLOSURE STATEMENT	APPLICANT(S): Liu et al.			
		SERIAL NO.: 10/643,752			
		FILING DATE: August 19, 2003 GROUP: 1637			
C74		Containing Thymine Monomers Derived from Chiral Amino Acids: sine PNA" Angew. Chem. Int. Ed. Engl. 35: 1939-1942 (1996)			
C75	Haeuptle et al., "Translation Arrest by Oligodeoxynucleotides Complementary to mRNA Coding Sequences Yields Polypeptides of Predetermined Length" Nucleic Acids Research 14(3): 1427-1448 (1986)				
C76	Hamburger et al., "Peptidyl-tRNA XI. The Chen Biochimica et Biophysica Acta, 213: 115-123 (nical Synthesis of Phenylalanine-Containing Oligopeptidyl-tRNA"			
C77		ts of RGD-Containing Cyclic Pentapeptides as Highly Potent and			
C78	Herrera-Estrella et al., "VirD Proteins of Agroba	cterium Tumefaciens are Required for the Formation of a Covalent DNA d Molecules" <i>The EMBO Journal</i> 7(13): 4055-4062 (1988)			
C79	¥ ==	abled Oligonucleotide Conjugates" J. Am. Chem. Soc. 117: 1-151-10152			
C80		nes and the Coprecipitation of Polyribosomes with Myosin" J. Biol.			
C81	Heywood et al., "The Identification of Polyribos	omes Synthesizing Myosin" <i>PNAS</i> 57: 1002-1009 (1967)			
C82	Hirama et al., "Asymmetric Induction in the Intramolecular Conjugate Addition of - or δ- Carbamoyloxy - , β-Unsaturated Esters. A New Method for Diastereoselective Amination and Divergent Synthesis of 3-Amino-2,3,6-Trideoxyhexoses" Heterocycles 28: 1229-1247 (1989)				
C83	Hirama et al., "Intramolecular Michael Addition Amination in an Acyclic System" J. Am. Chem.	of O-Carbamates to α,β Unsaturated Esters: A New Diastereoselective Soc. 107: 1797-1798 (1985)			
C84	Hooper et al., "Mode of Action of the New Quin (1991)	olones: New Data" Eur. J. Clin. Microbiol. Infect. Dis. 10(4): 223-231			
C85	Houdebine et al., "Purification of the mRNAs for Eur. J. Biochem. 63: 9-14 (1976)	r Ewe $α_s$ –Casein and β-Casein by Immunoprecipitation of Polysomes"			
C86	House et al., "The Chemistry of Carbanions. XVII. The Addition of Methyl Organometallic Reagents to Cyclohexenone Derivatives" J. Org. Chem. 33: 949 (1968)				
C87	Hughes, "Application of Polymer-Bound Phosph 7595-7598 (1996)	nonium Salts as Traceless Supports for Solid" Tetrahedron Lett. 37:			
C88	Hyrup et al., "Peptide Nucleic Acids (PNA): Sy Chemistry 4(1): 5-23 (1996)	nthesis, Properties and Potential Applications" Bioorganic & Medical			
C89	Illuminati et al., "Ring Closure Reactions of Biff	unctional Chain Molecules" Acc. Chem. Res. 14: 95-102 (1981)			
C90	Inoue et al., "Oligomerization of (Guanosine 5' - Model" J.Mol. Biol. 162: 201-217 (1982)	-Phosphor)-2-Methylimidazolide on Poly(C): An RNA Polymerase			
C91	Inoue et al., "Substituent Control of the Poly(C) Am. Chem. Soc. 103: 7666-7667 (1981)	- Directed Oligomerization of Guanosine 5' – Phosphoroimidazolide" J.			
C92		e Pentanucleotide CpCpGpCpC" J. Mol. Biol. 178: 669-676 (1984)			
C93	International Search Report for Application No.	PCT/US02/08546 dated December 17, 2002			
C94	International Search Report for Application No.	•			
C95	Ito et al., "Acetone-Sensitized Photocoupling of 5-Bromouridine to Trytophan Derivatives via Electron-Transfer Process" J. Amer. Chem. Soc. 102: 7535-7541 (1980)				
C96	Jemth et al., "Kinetic Characterization of Recombinant Human Glutathione Transferase T1-1, A Polymorphic Detoxication Enzyme" Arch. Biochem. Biophys. 348(2): 247-54 (1997)				
C97	Johansson et al., "Regioselctive Reductive Ring-Opening of 4-Methoxybenzylidene Acetals of Hexopyranosides. Access to a Novel Protecting-Group Strategy. Part 1" J. Chem. Soc. Perkins Trans. 1: 2371-2374 (1984)				
C98		-Glycosylation of Fetuin" Biochemistry 25: 5518-5525 (1986)			
EXAMINER		DATE CONSIDERED			

FORM PTO - 1	449	ATTORNEY DOCKET NO.: LS5-001	
INFORMATIO	N DISCLOSURE STATEMENT	APPLICANT(S): Liu et al.	
		SERIAL NO.: 10/643,752	
		FILING DATE: August 19, 2003 GROUP: 1637	
C99		zation: Accurate and General RNA-Templated Primer Extension"	
C100		Digonucleotides with Low Concentrations of Cetyltrimethylammonium	
C101		Oligonucleotides via Photolabile, Convertible C5-Substituted	
C102		in Degradation of Proteins Synthesized from Damaged Messenger RNA"	
C103	Science 271: 990-993 (1996) King et al., "Bis (Dialkylamino) Phosphines J. C	Org. Chem. 49: 1784-1789 (1984)	
C104	Kinoshita et al., "Enzymatic Synthesis of Code Symposium Series 34: 201-202 (1995)	Regions for Encoded combinatorial Chemistry (ECC)" Nucleic Acids	
C105		"Current Opinion in Chemical Biology 3: 313-319 (1999)	
C106	Kupsch et al., "Isolation of Human Tumor-Spec Cells" Clin Cancer Res. 5: 925-931 (1999)	fic Antibodies by Selection of an Antibody Phage Library on Melanoma	
C107		ucleotide in Aptamer Selection: Novel Thrombin Aptamers Containing 5- 22: 2817-2822 (1994)	
C108		Antithrombotic Efficacy of RPR120844, a Novel Inhibitor of Coagulation	
C109			
C110			
C111	Li et al. "DNA-Catalyzed Polymerization" J. Am		
C112	Li et al., "A Catalytic DNA for Porphyrin Metal	ation" Nat. Struct. Biol. 3: 743-747 (1996)	
C113	Li et al., "Capping DNA with DNA" Biochemist	ry 39 : 3106-3114 (2000)	
C114	Li et al., "Chemical Self-Replication of Palindro	mic Duplex DNA" Nature 369: 218-221 (1994)	
C115			
C116	Li et al., "Toward an Efficient DNAzyme" Bioch	nemistry 36: 5589-5599 (1997)	
C117	Chem. Biol. 5: 555-572 (1998)	g Pocket Through Adaptive Zippering-Up of a Large DNA Hairpin Loop"	
C118		Recognition in an AMP-DNA Aptamer Complex: Distinct Architectures RNA Aptamers Complexed to AMP" Chem. Biol. 4: 817-832 (1997)	
C119		A Lesson from Nature" Angew. Chem. Intl. Ed. Eng. 38: 37-54 (1999)	
C120		ing in Nanostructures" Dept. of Phys., Univ. of Basel, Switzerland.	
C121	Luo et al., "Analysis of the Structure and Stability of a Backbone-Modified Oligonucleotide: Implications for Avoiding Product Inhibition in Catalytic Template-Directed Synthesis" J. Am. Chem. Soc. Vol. 120, No. 13: 3019-3031 (1998)		
C122	(1998)	Exponential Amplification of DNA Analogues" Nature 396: 245-248	
C123	Lynn et al., "Water-Soluble Ruthenium Alkylide Protic Solvents" J. Am. Chem. Soc. 122: 6601-6	nes: Synthesis, Characterization, and Application to Olefin Metathesis in 609 (2000)	
C124		lymerization in Water" J. Am. Chem. Soc. 12: 1627-1628 (1998)	
EXAMINER		DATE CONSIDERED	

FORM PTO - 1449		ATTORNEY DOCKET NO.: LS5-001			
INFORMATION DISCLOS	SURE STATEMENT	APPLICANT(S): Liu et al.			
		SERIAL NO.: 10/643,752			
		FILING DATE: August 19, 2003 GROUP: 1637			
	C125 MacLean et al., "Encoded Combinatorial Chemistry Synthesis and Screen Pyrrolidines" Proc. Natl. Acad. Sci. USA 94: 2805-2810 (1997)				
C126 Magid, "Nucle		cement Reactions of Allylic Compounds: Stereo- and Regiochemistry"			
	Engineering Chemical Reactivity of	on Cell Surfaces Through Oligosaccharid Biosynthesis" Science 276:			
		ctorXa Complexed with Potent Inhibitors" J. Med. Chem. 43: 3226-3232			
C129 Marks et al., "	Molecular Evolution of Proteins or	n Filamentous Phage" J. Biol. Chem. 267(23): 16007-16010 (1992)			
		-Activity Relationship of a Series of Arginine Aldehyde Factor Xa Arg-Gly-Arg Tripeptide Sequence" <i>Bioorg. Med. Chem. Lett.</i> 10: 13-16			
Proc. Natl. Ac	ead. Sci. USA 91: 9022-9026 (1994				
	al., "Solubilization of DNA-Cationiby Fluorescence Microscopy" Lang	ic Lipid Complexes in Hydrophobic Solvents. A Single-Molecule			
C133 Minshull et al.	Minshull et al., "Protein Evolution by Molecular Breeding" Curr. Opin. Chem. Biol. 3: 284-290 (1999)				
Lett. 32: No. 3	Mirza et al., "Synthesis of Shikimic Acid And Its Phosphonate Analogue Via Knoevenagel Condensation" Tetrahedron Lett. 32: No. 33, 4111-4114 (1991)				
C135 Miyamoto-Sat proteins" Nucl					
	Mohr et al., "Synthesis of Water-Soluble, Aliphatic Phoshines and Their Application to Well-Defined Ruthenium Olefin Metathesis Catalysts" Organometallics 15: 4317-4325 (1996)				
C137 Muth et al., "A 950 (2000)	Muth et al., "A Single Adenosine with a Neutral pK _a in the Ribosomal Peptidyl Transferase Center" Science 289: 947-				
	 l., "Wittig Reactions of 1-Alkoxyc ±) -2-Epilasubine II" Heterocycles 	arbonyl-2-Hydroxypyrrolidines and -Piperidines: Synthesis of (±) - 29: 155 (1989)			
C139 Nakano <i>et al.</i> , 1497 (2000)	"General Acid-Base Catalysis in the	ne Mechanism of a Hepatitis Delta Virus Ribozyme" Science 287: 1493-			
	al., "A closed tube format for ampli 2): 2516-2521 (1997)	ification and detection of DNA based on energy transfer" Nucleic Acid			
		bearing puromycin at the 3'-terminal end to the C-terminal end of its ean Biochemical Societies Letters 414: 405-408 (1997)			
	<u> </u>	Activity in Peptide Bond Synthesis" Science 289: 920-930 (2000)			
(1996)		Ligands Binding to L-Arginine" Nature Biotechnology 14: 1116-1121			
C146 Olofson et al.,					
		stems" Acc. Chem. Res. 28: 109-118 (1995)			
	"Potent 2'-Amino-, and 2'-Fluoro- hnology 15: 68-72 (1997)	2'- Deoxyribonucleotide RNA Inhibitors of Keratinocyte Growth Factor"			
EXAMINER		DATE CONSIDERED			

FORM PTO - 1	449	ATTORNEY DOCKET NO.: LS5-001			
INFORMATIO	N DISCLOSURE STATEMENT	APPLICANT(S): Liu et al.			
		SERIAL NO.: 10/643,752			
		FILING DATE: August 19, 2003 GROUP: 1637			
C150	Pasqualini et al., "Aminopeptidase N ls a Recep Cancer Res. 60: 722-727 (2000)	tor for Tumor-homing Peptides and a Target for Inhibiting Angiogenesis"			
C151	Pasqualini et al., "Organ Targeting In Vivo Usir	g Phage Display Peptide Libraries" Nature 380: 364-366 (1996)			
C152	Pedersen et al., "A Method for Directed Evolution 10523-10528 (1998)	on and Functional Cloning of Enzymes" Proc. Natl. Acad. Sci. USA 95:			
C153	Perrin et al., "Bridging the Gap Between Protein Protein-Like Functionalities" J. Am. Chem. Soc.	and Nucleic Acids: A Metal-Independent RNAseA Mimic with Two 123: 1556-1563 (2001)			
C154	Perrin et al., "Expanding the Catalytic Repertoir	e of Nucleic Acid Catalysts: Simultaneous Incorporation of Two earing Ammonium and Imidazolyl Functionalities" Nucleosides &			
C155	Pfaff et al., "Selective Recognition of Cyclic RC Biol. Chem. 269: 20233-20238 (1994)	D Peptides of NMR Defined Conformation of allbβ3, α5β1 Integrins" J.			
C156	411: 498-501 (2001)	can Withstand Mutations at the Putative Catalytic Nucleotide" Nature			
C157		th a Functional Backbone" Tetrahedron Lett. 39: 4707-4710 (1998)			
C158	Rai et al., "Development of Potent and Selective Factor Xa Inhibitors" Bioorg. Med. Chem. Lett. 11: 1797-1800 (2001)				
C159	Rembold et al., "Single-Strand Regions of Poly(G) Act as Templates for Oligo(C) Synthesis" J. Mol. Evol. 38: 205-210 (1994)				
C160	Roberts et al., "RNA-Peptide Fusions for the In Vitro Selection of Peptides and Proteins" Proc. Natl. Acad. Sci. USA 94: 12297-12302 (1997)				
C161	Rodriguez et al., "Template-Directed Extension of a Guanosine 5'-Phosphate Covalently Attached to an Oligodeoxycytidylate Template" J. Mol. Evol. 33: 477-482 (1991)				
C162					
C163		A for Binding and Catalysis: Highly Functionalized dUTP Derivatives merases" Angew. Chem. Int. Ed. 37: 2872-2875 (1998)			
C164	Salas et al., "Biosynthetic Polydeoxynucleotides Chemistry 243(5): 1012-1015 (1968)	as Direct Templates for Polypeptide Synthesis" Journal of Biological			
C165	•	ng DNA Enzyme" Proc. Natl. Acad. Sci. USA 94: 4262-4266 (1997)			
C166	Saxon et al., "A 'Traceless' Staudinger Ligation 2(14): 2141-2143 (2000)	for the Chemoselective Synthesis of Amide Bonds" Organic Letters			
C167	1076-1078 (1986)	llysis of Enzymatically Amplified Genomic Sequences" Science 233:			
C168	Scheffer et al., "Selection and Characterisation of Resistance-Related Major Vault Protein" Br. J. (of a Phage-Displayed Human Antibody (Fab) Reactive to the Lung Cancer 86: 954-962 (2002)			
C169					
C170		ndustrial Enzymes" Trends Biotechnol. 17: 135-136 (1999)			
C171	Scholl et al., "Synthesis and Activity of a New Generation of Ruthenium-Based Olefin Metathesis Catalysts Coordinated with 1,3-Dimesityl-4,5-Dihydroimidazol-2-Ylidene Ligands" Org. Lett. 1(6): 953-956 (1999)				
C172					
C173					
C174	Scott, "How Were Porphyrins and Lipids Synthe	sized in the RNA World?" Tetrahedron Lett. 38: 4961-4964 (1997)			
EXAMINER		DATE CONSIDERED			

FORM PTO - 1449		ATTORNEY DOCKET NO.: LS5-001	
INFORMATION DISCLOSURE STATEMENT		APPLICANT(S): Liu et al.	
		SERIAL NO.: 10/643,752	
		FILING DATE: August 19, 2003 GROUP: 1637	
C175	Seeberger et al., "Solid-Phase Oligosaccharide S 4349-4393 (2000)	Synthesis and Combinatorial Carbohydrate Libraries" Chem. Rev. 100:	
C176	Seeberger, P.H., Ed., "Solid Support Oligosacch Interscience: New York 2001 (copy not enclosed	aride Synthesis and Combinatorial Carbohydrate Libraries" Wiley-	
C177	Seela et al., "Oligonucleotides Containing 7-Deazaadenines: The Influence of the 7-Substituent Chain Length and Charge on the Duplex Stability" Helv. Chem. Acta. 82: 1878-1898 (1999)		
C178			
C179	Shao et al., "Random-Priming in Vitro Recombination: An Effective Tool for Directed Evolution" Nucleic Acids Research 26(2): 681-83 (1998)		
C180		sylase Activity" Proc. Natl. Acad. Sci. USA 97: 7802-7807 (2000)	
C181	Shimizu et al., "Search for Chiral Catalysts Through Ligand Diversity: Substrate-Specific Catalysts and Ligand Screening on Solid Phase" Angew. Chem. Int. Ed. 36(16): 1704-1707 (1997)		
C182			
C183			
C184	Smith, G., "Filamentous Fusion Phage: Novel E Science 228: 1315-1317 (1985)	xpression Vectors That Display Cloned Antigens on the Virion Surface"	
C185		2 370 : 324-325 (1995)	
C186	Soumillion <i>et al.</i> , "Selection of β-Lactamase on 22 (1994)	Filamentous Bacteriophage by Catalytic Activity" J. Mol. Biol. 237: 415-	
C187	Stemmer, "DNA Shuffling by Random Fragmentation and Reassembly: In Vitro Recombination for Molecular Evolution" Proc. Natl. Acad. Sci. USA 91: 10747-10751 (1994)		
C188		by DNA Shuffling" Nature 370: 389-391 (1994)	
C189	Still et al., "Chemical Consequences of Conform	nation in Macrocyclic Compounds," Tetrahedron 37: 3981-3996 (1981)	
C190	Summerer D. et al., "DNA-Templated Synthesis Chemie. Weinheim, DE, Vol. 41, No. 1: 89-90 (2)	: More Versatile Than Expected" Angewandte Chemie. Int'l Edit., Verlag 2002)	
C191	Supplementary European Search Report for App	olication No. EP 02 75 3671 dated September 21, 2004	
C192	Sutherlin et al., "Stereoselective Synthesis of Di	pyranyl C-Disaccharides" Tetrahedron Lett. 34(31): 4897-4900 (1993)	
C193	Tamura et al., "Oligonucleotide-Directed Peptid Acad. Sci. USA 98: 1393-1397 (2001)	e Synthesis in a Ribosome- and Ribozyme-Free System" Proc. Natl.	
C194	Tarasow et al., "Dressed for Success: Realizing	the Catalytic Potential of RNA" Biopolymers 48: 29-37 (1998)	
C195	Tseng-Law et al., "Identification of a Peptide Directed Against the Anti-CD34 Antibody, 9C5, by Phage Display and Its Use in Hematopoietic Stem Cell Selection" Exp. Hematol 27: 936-945 (1999)		
C196			
C197	Vacca, "New Advances in the Discovery of Thrombin and Factor Xa Inhibitors" Curr. Opin. Chem. Biol. 4: 394-400 (2000)		
C198	Van Gelder et al., <i>PNAS</i> , 85: 77652-77656 (1988)		
C199		ogenesis and Apoptosis" Cell Adhes Commun 3: 367-374 (1995)	
C200	Visscher et al., "Template-Directed Synthesis of 3-6 (1988)	Acyclic Oligonucleotide Analogs" Journal of Molecular Evolution 28:	
EXAMINER		DATE CONSIDERED	

FORM PTO - 1449		ATTORNEY DOCKET NO.: LS5-001	
INFORMATION DISCLOSURE STATEMENT		APPLICANT(S): Liu et al.	
		SERIAL NO.: 10/643,752	
		FILING DATE: August 19, 2003 GROUP: 1637	
C201	Walder et al., "Complementary Carrier Peptide S Peptide Synthesis" Proc. Nat. Acad. Sci. USA 76	synthesis: General Strategy and Implications for Prebiotic Origin of	
C202			
C203	Wermuth et al., "Stereoisomerism and Biological Activity of the Selective and Superactive α _v β ₃ Integrin Inhibitor Cyclo (RGDfV -) and Its Retro-Inverso Peptide" J. Am. Chem. Soc. 119: 1328-1335 (1997)		
C204			
C205	Wilson et al., "In Vitro Selection of Functional Nucleic Acids" Annu. Rev. Biochem. 68: 611-647 (1999)		
C206	Winter et al., "Making Antibodies by Phage Disp	olay Technology" Annu. Rev. Immunol. 12: 433-455 (1994)	
C207	Wong et al., "Enzymes in Synthetic Organic Chemistry" 388 pages Pergamon: Tetrahedron Organic Chemistry Series 12: 1994 (Index only enclosed)		
C208	Woodward et al., "Asymmetric Total Synthesis of Erythromycin. 1. Synthesis of an Erythronolide A Seco Acid Derivative via Asymmetric Induction" J. Am. Chem. Soc. 103: 3210-3213 (1981)		
C209			
C210	Xu et al., "Rapid and Selective Selenium-Mediated Autoligation of DNA Strands" J. Am. Chem. Soc. 122: 9040-9041 (2000)		
C211	Zarling et al., "Mapping of Lymphocyte Surface Polypeptide Antigens by Chemical Cross-Linking with Bsocoes" J. Immunology 124: 913-920 (1980)		
C212			
C213	Zhang et al., "Lactone and Lactam Library Synthesis by Silver Ion-Assisted Orthogonal Cyclization of Unprotected Peptides" J. Am. Chem. Soc. 121: 3311-3320 (1999)		
C214			
C215	Zhao et al., "Molecular Evolution by Staggered Extension Process (StEP) in Vitro Recombination" Nature Biotechnology 16(3): 258-61 (1998)		
C216	Zhao et al., "Optimization of DNA Shuffling for High Fidelity Recombination" Nucleic Acids Research 25(6): 1307-1308 (1997)		
C217			
EXAMINER		DATE CONSIDERED	

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